Product datasheet

Specifications

Controller system, Modicon TM5, Safe logic CPU plus, SERCOS 3 interface, 80 nodes

TM5CSLC200FS

Main

Range Of Product	Modicon TM5
Product Or Component Type	Controller system
Device Application	Safety logic controller
Processor Name	Intel Xscale 266 MHz
Reverse Polarity Protection	Yes

Complementary

Communication Network Type	SERCOS III (Ethernet)
Transmission Rate	100 Mbit/s for full duplex
Cycle Time	1 ms
Realtime Clock	With non-volatile memory
Number Of Devices	2 shielded RJ45 1 memory key slot
Function Available	Support of 32 machine options With 2 internal switch Support max 100 safety nodes
Maximum Cable Distance Between Devices	100 m between station
Rated Voltage	24 V -15...20 %
Input Protection Type	Integrated fuse (not interchangeable)
Power Consumption In W	5.1 W
Type Of Cooling	Fanless
Marking	CE
Safety Level	SIL 3 conforming to IEC 61508 SIL 3 conforming to IEC 62061 PL = e conforming to EN 13849-1
Safety Reliability Data	PFD < 1E-5 PFH < 1E-9 MTTFd > 100 years
Local Signalling	1 LED (green or orange) for application run or SoSafe debug mode 1 LED (green) for authorization status 1 LED (orange) for configuration status (Ready) 1 LED (orange) for firmware status 4 LEDs (red) for boot status 1 LED (orange) for memory key status
Colour	Red
Width	87.5 mm
Height	99 mm

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Depth	75 mm
Net Weight	0.29 kg

Environment

Ambient Air Temperature For Operation	0…45 °C (vertical installation) 0…55 °C (horizontal installation)
Ambient Air Temperature For Storage	-25…70 °C
Relative Humidity	5…95 % without condensation
Ip Degree Of Protection	IP20
Operating Altitude	0...2000 m
Standards	IEC 62061 EN 13849-1 IEC 61508 IEC 61131-2 IEC 61511
Product Certifications	cULus GOST-R

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	13.200 cm
Package 1 Width	15.700 cm
Package 1 Length	31.300 cm
Package 1 Weight	510.000 g
Unit Type Of Package 2	S04
Number Of Units In Package 2	6
Package 2 Height	30.000 cm
Package 2 Width	40.000 cm
Package 2 Length	60.000 cm
Package 2 Weight	3.890 kg

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

Well-being performance

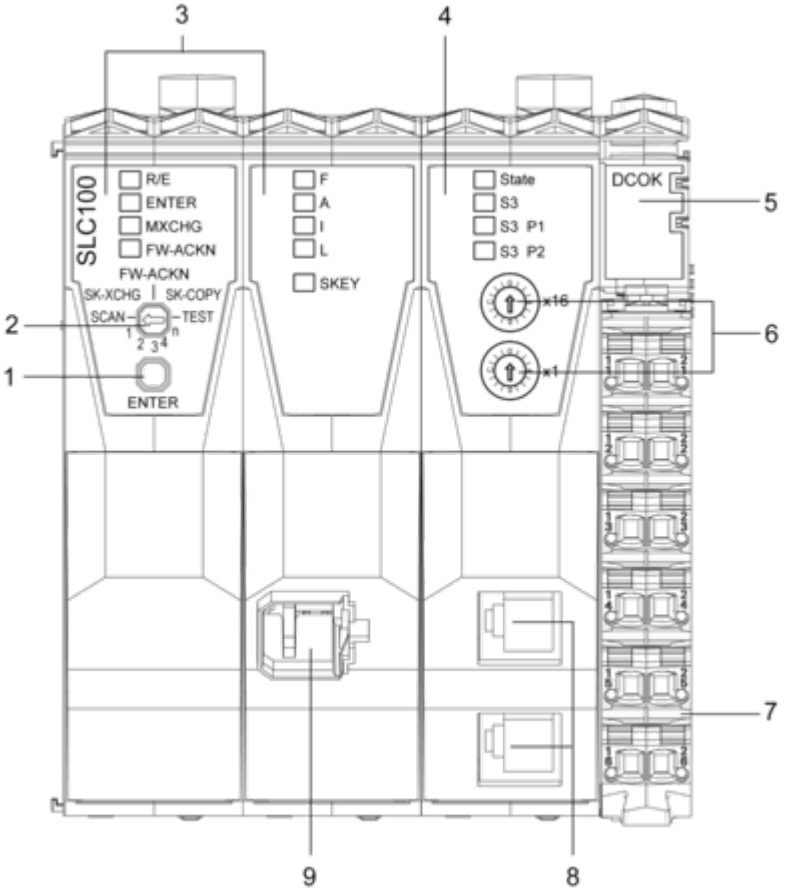
Toxic Heavy Metal Free	
Mercury Free	
Rohs Exemption Information	Yes
Pvc Free	

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information

Presentation

Safe Logic Controller Module

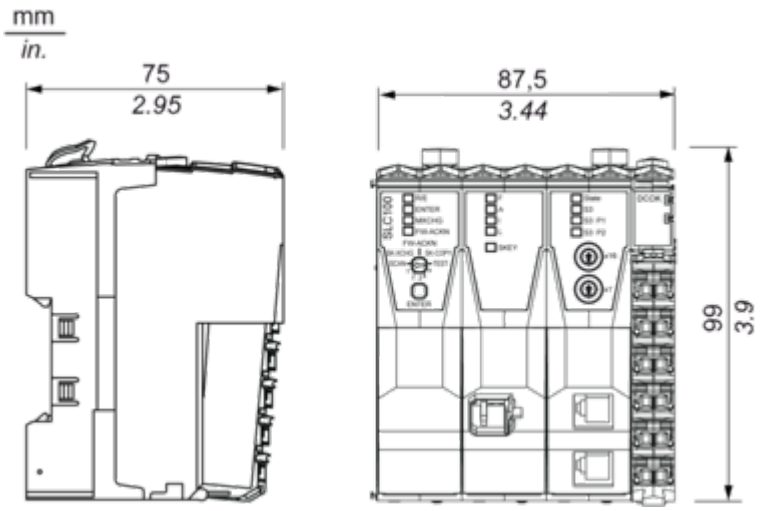


(1) Confirmation button
(2) Selection switch
(3) Safety processor
(4) SERCOS III interface
(5) Integrated power supply
(6) SERCOS III address switches
(7) Terminal block for Safe Logic Controller supply
(8) Ethernet SERCOS III connection with 2 x RJ45 for simple wiring
(9) Memory Key slot

Dimensions Drawings

TM5 Safe Logic Controller

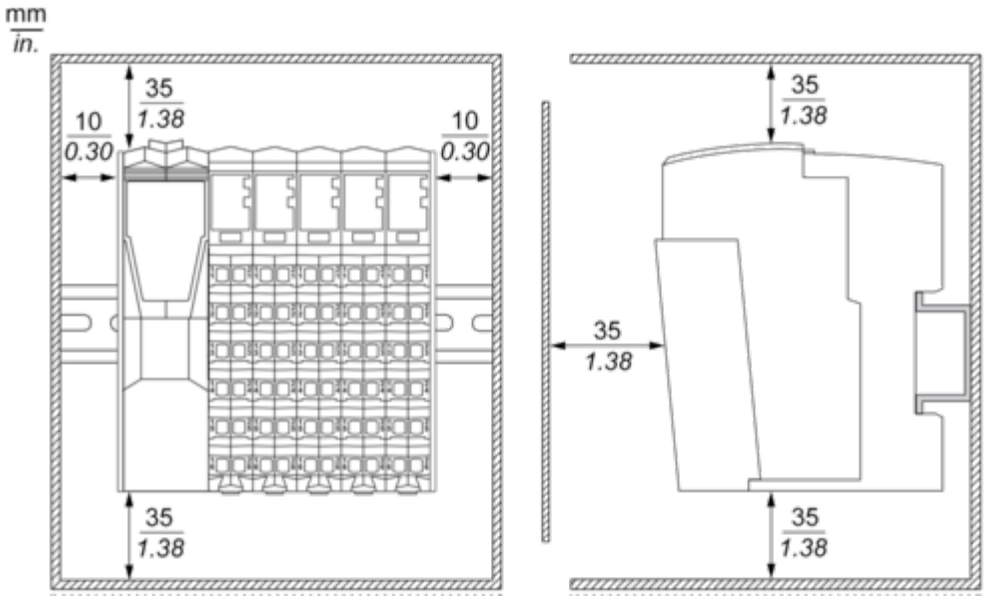
Dimensions



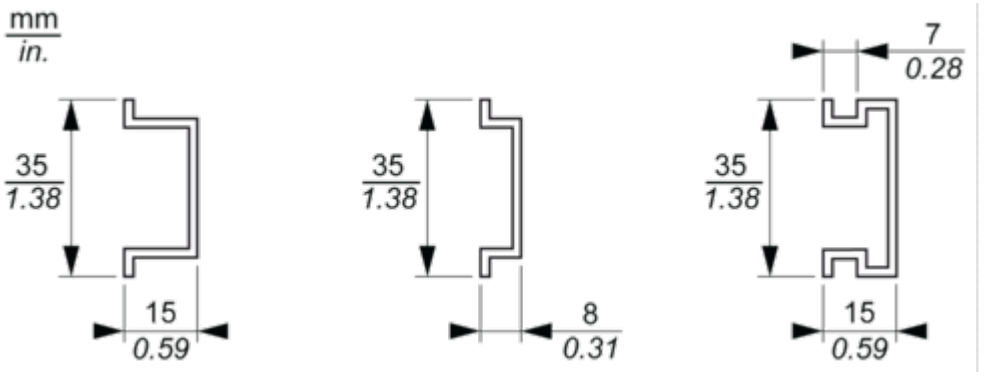
Mounting and Clearance

TM5 Safety System

Spacing Requirements



Mounting on a DIN Rail



Connections and Schema

TM5 System Wiring Recommendations

Wire Sizes to Use with the Removable Spring Terminal Blocks

mm / in. 9 / 0.35				
mm²	0,08…2,5	0,25…2,5	0,25…1,5	2 x 0,25...2 x 0,75
AWG	28…14	24…14	24…16	2 x 24…2 x 18